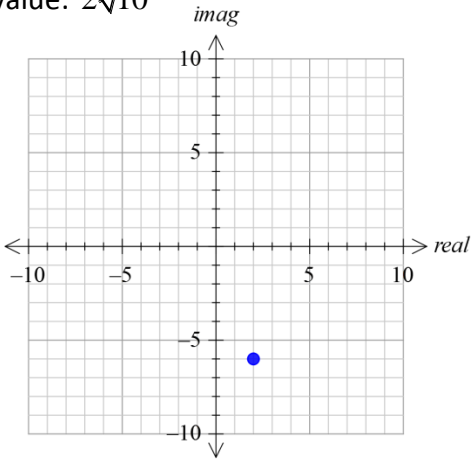
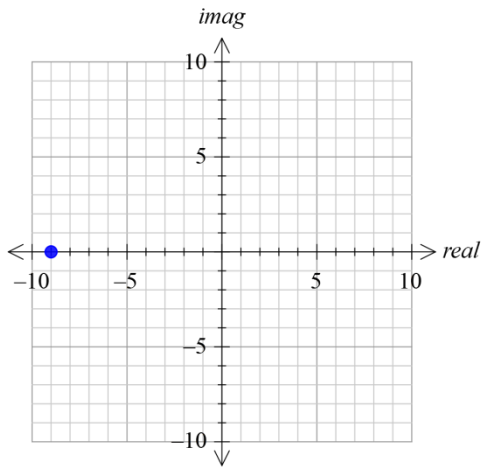


### 3.22 Trig. Form of Complex Numbers(odd answers)

1. abs. value:  $2\sqrt{10}$



3. abs. value: 9



5.  $z = 4\sqrt{2}(\cos 315^\circ + i \sin 315^\circ)$

7.  $z = \sqrt{3}(\cos 90^\circ + i \sin 90^\circ)$

9.  $z = 5(\cos 53.1^\circ + i \sin 53.1^\circ)$

11.  $3i$

13.  $6i$

15.  $\sqrt{3} + i$

17.  $z_1 z_2 = -40i, \frac{z_1}{z_2} = \frac{-4}{5}$

19.  $z_1 z_2 = -18 + 14i, \frac{z_1}{z_2} = .46 + 1.69i$

21. 4